



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
28.01.2009 Bulletin 2009/05

(51) Int Cl.:
B01D 41/04 ^(2006.01) **B08B 5/02** ^(2006.01)
B08B 15/04 ^(2006.01)

(43) Date of publication A2:
05.11.2008 Bulletin 2008/45

(21) Application number: **08445019.6**

(22) Date of filing: **02.05.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT
RO SE SI SK TR
Designated Extension States:
AL BA MK RS

(30) Priority: **03.05.2007 SE 0701068**
29.05.2007 SE 0701293

(71) Applicant: **Larsson, Magnus**
596 92 Skänninge (SE)

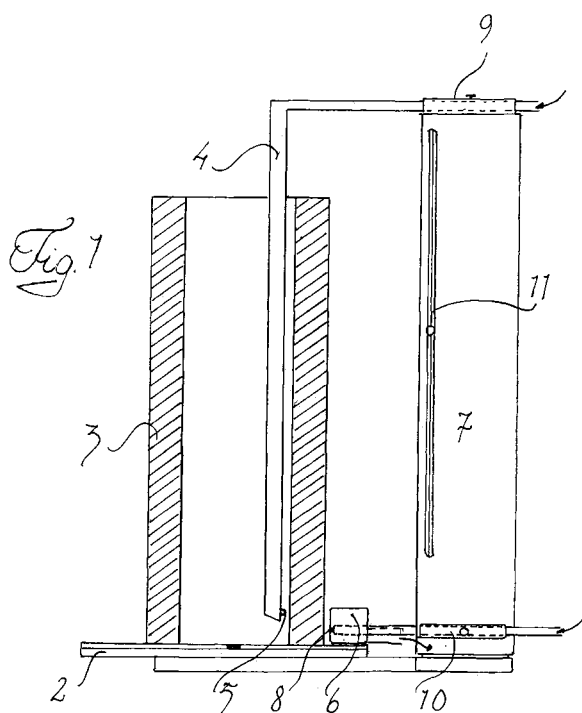
(72) Inventor: **Larsson, Magnus**
596 92 Skänninge (SE)

(74) Representative: **Berglund, Erik Wilhelm**
Berglunds Patentbyrå AB
Aspebråten
590 55 Sturefors (SE)

(54) **Cleaning device for filters**

(57) Cleaning device for filter that includes, opposite each other located, a blowing orifice for air and a suction orifice for air with an intermediate distance that allows the insertion of a filter (3) that is to be cleaned therebetween. The orifices are moveable in the height direction up and down. The filter (3) that is to be cleaned is put on a rotatable table (2) with the blowing orifice (5) on the

inside and a suction box (6) or suction orifice on the outside of the filter. An eccentrically suspended ratchet (12) is arranged on the suction orifice and has such a length that it in the proximity of an end position for this up and down going movement is brought in contact with the table (2) coated with a rubber disc so that the table is turned together with the filter, a step at each movement forth and back.





EUROPEAN SEARCH REPORT

Application Number
EP 08 44 5019

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 4 842 624 A (BARTON RONALD R [US]) 27 June 1989 (1989-06-27) * column 1, lines 5-10 * * column 2, line 5 - column 8, line 57 * * claims 1,3,4,6,7,9-11,13-15,17-23,25,29 * * figures 1-16 * -----	1-3,6	INV. B01D41/04 B08B5/02 B08B15/04
Y	US 5 584 900 A (ZAISER GREGORY H [US] ET AL) 17 December 1996 (1996-12-17) * column 1, lines 6-8 * * column 2, line 16 - column 4, line 27 * * column 5, line 20 - column 12, line 61 * * claims 1-18 * * figures 1-12 * -----	1,2,4-7	
Y	US 3 066 688 A (WILLIAM YOUNG ROBERT) 4 December 1962 (1962-12-04) * column 1, lines 11-13 * * column 4, line 45 - column 7, line 35 * * claims 1,14,16,17 * * figures 1,2 * -----	1,2,4-7	
Y	US 5 143 529 A (MEANS ORVILLE DONALD JR [US]) 1 September 1992 (1992-09-01) * column 1, lines 5-8 * * column 2, line 12 - column 6, line 17 * * claims 1-20 * * figures 1-10 * -----	1-7	B01D B08B
Y	US 3 840 402 A (TOBIN B) 8 October 1974 (1974-10-08) * column 1, lines 11-52 * * column 2, lines 18-26 * * column 4, line 48 - column 8, line 43; figures 1-9 * ----- -/--	1-7	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 19 December 2008	Examiner Psoch, Christian
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

 2
EPO FORM 1503 03.82 (P4/C01)



EUROPEAN SEARCH REPORT

Application Number
EP 08 44 5019

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 2004/103788 A1 (STREICHSBIER MICHAEL [US] ET AL) 3 June 2004 (2004-06-03) * paragraphs [0003], [0028] - [0040], [0050] - [0066] * * claims 1-9,21,22,24,28,30,31,33,38-48,59-61,64-68 * * figures 1-9 * -----	1,4-7	
Y	DE 197 14 790 A1 (MERTENS CLAUDIA [DE]) 15 October 1998 (1998-10-15) * column 1, lines 3-7 * * column 2, line 18 - column 3, line 38 * * claims 1,2,4,9,10 * * figures 1-4 * -----	1,4-7	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
Place of search The Hague		Date of completion of the search 19 December 2008	Examiner Psoch, Christian
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

 2
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 44 5019

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-12-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4842624	A	27-06-1989	NONE	
US 5584900	A	17-12-1996	NONE	
US 3066688	A	04-12-1962	NONE	
US 5143529	A	01-09-1992	AT 132767 T	15-01-1996
			AU 656548 B2	09-02-1995
			AU 9105191 A	08-07-1992
			CA 2098015 A1	14-06-1992
			DE 69116384 D1	22-02-1996
			DE 69116384 T2	23-05-1996
			EP 0563154 A1	06-10-1993
			JP 7507226 T	10-08-1995
			MX 9102447 A1	01-06-1992
			WO 9210268 A1	25-06-1992
US 3840402	A	08-10-1974	NONE	
US 2004103788	A1	03-06-2004	US 2006248864 A1	09-11-2006
DE 19714790	A1	15-10-1998	NONE	

EPO FORM P4459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82